

SPITKOVSKAYA, S.M.

Neogene gabbro-diabases in the Transcarpathian volcanic ridge.
Geol. sbor. [Lvov] no.5/6:128-134 '58. (MIRA 12:10)

1. Zakarpatskaya ekspeditsiya Ukrgeolupravleniya, L'vov.
(Transcarpathia--Diabase)

MERLICH, B.V. [Merlich, V.V.]; SPITKOVSKAYA, S.M. [Spitkova'ska, S.M.]

Development of the Tertiary volcanism in the Soviet Car-
pathians. Pyt.geol. no.9:30-49 '58. (MIRA 13:4)
(Carpathian Mountains--Volcanoes)

MERLICH, B.V.; SPITKOVSKAYA, S.M.[Spitkovs'ka, S.M.]

Age of hypabyssal intrusions in the Vyshkovo region in Transcarpathia.
Geol.zhur. 18 no.3:27-34 '58. (MIRA 11:11)

(Transcarpathia--Rocks, Igneous)

SPITKOVA, S.; MERLICH, B.

Age of the hypabyssal intrusions of the Vyshkovo District in the Transcarpathian region. p. 81.

ANALELE ROMINO-SOVIETICE. SERIA GEOLOGIE-GEOGRAFIE. Bucuresti, Rumania.
Vol. 12, no. 2, Apr./June 1959.

Monthly List of East European Accessions (EEAI) LC, VOL. 9, No. 1, January 1960.

Uncl.

GILLER, Ya.L.; MERLICH, B.V.; SPITKOVSKAYA, S.M.

Hydroromeite from Transcarpathia. Min.sbor. no.14:285-296
'60. (MIRA 15:2)

1. Gosudarstvennyy universitet imeni Ivana Franko, L'vov.
(Transcarpathia-Hydroromeite)

MERLICH, B.V.; ZAYTSEVA, V.M.; SPITROVSKAYA, S.M.; SASIN, G.G.

Neogene volcanic necks in Transcarpathia. Geol.sbor. [Lvov]
no.7/8:107-128 1961. (MIRA 14:12)

1. Gosudarstvennyy universitet imeni Iv.Franko, Lvov,
Zakarpatskaya ekspeditsiya.
(Transcarpathia--Volcanic ash, tuff, etc.)

SPITKOVSKAYA, S.M.

Characteristics of the contact metamorphism associated with
hypabyssal intrusions of the Vyshkovo region in Transcarpathia.
Geol.sbor. [Lvov] no.7/8:143-150 '61. (MIRA 14:12)

1. Gosudarstvennyy universitet imeni Ivana Franko, L'vov.
(Transcarpathia--Metamorphism (Geology))

SPITKOVSKAYA, S.M.

Inclusions of skarns in Neogene gabbro-diabases of the Vyshkovo region (Transcarpathia). Min. sbor. no.15:316-321 '61. (MIRA 15:6)

1. Gosudarstvennyy universitet imeni Ivana Franko, L'vov.
(Transcarpathia--Skarns) (Transcarpathia--Gabbro)

MERLICH, B.V.; SPITKOVSKAYA, S.M.; DATSENKO, N.M.

Classification of aggregate varieties of sulfur in the Rozdol
deposit. Min. sbor. no.16:210-226 '62. (MIRA 16:10)

1. Gosudarstvennyy universitet imeni Ivana Franko, L'vov.
(Rozdol region—Sulfur)

GILLER, Ya.L.; SPITKOVSKAYA, S.M.

X-ray characteristics of hatchettite from Transcarpathia. Rent.
min.syr. no.3:71-72 '63. (MIRA 17:4)

1. L'vovskiy gosudarstvennyy universitet.

MERLICH, B.V.; SPITKOVSKAYA, S.M.

New data on the association of the Neogene mineralization
of Transcarpathia with igneous activity. Dokl. AN SSSR 153
no.6:1407-1410 D '63. (MIRA 17:1)

1. L'vovskiy gosudarstvennyy universitet im. Iv. Franko.
Predstavleno akademikom V.I. Smirnovym.

SPITKOVSKAYA, S.M.

Relationship of the hypabyssal intrusions to the leucocratic
dacite extrusions in Transcarpathia. Izv. AN SSSR. Ser. geol.
29 no.8:24-36 Ag '64. (MIRA 17:11)

1. Geologicheskiy fakul'tet L'vovskogo universiteta, L'vov.

MERLICH, B.V.; SPITKOVSKAYA, S.M.

Characteristics of the Upper Neogene igneous activity of deep
faults in Transcarpathia. Geol.sbor. [Lvov] no.9:55-68 '65.
(MIRA 18:12)

ZUBAREVA, L.A.; SPITKOVSKAYA, Z.M.

Some features of the interior constitution of hybrid chickens.
Trudy Inst. gen. no.24:340-351 '58. (MIRA 11:9)
(Poultry breeding) (Heterosis) (Glands, Ductless)

L 31194-66 EWP(j)/EWT(m) RM

ACC NR: AP6022568

SOURCE CODE: UR/0216/66/000/002/0197/0210

53

AUTHOR: Tseytlin, P. I.; ~~Spitkovskiy, D. I.~~; Gorin, A. I.; Ivannik, B. P.;
Kulikova, L. G.; Luchkina, L. A.; Martynov, E. V.; Ryabchenko, N. I.; Usakovskaya, T. S.

ORG: Institute of Experimental Biology, AMN SSSR, Moscow (Institut eksperimental'noy biologii AMN SSSR)

TITLE: Analysis of radiation injury to deoxyribonucleoproteins at the molecular and supramolecular levels

SOURCE: AN SSSR. Izvestiya. Seriya biologicheskaya, no. 2, 1966, 197-210

TOPIC TAGS: radiation injury, protein, DNA, x ray irradiation, hydrogen bonding, molecular structure

ABSTRACT: X-irradiation does not give rise to covalent crosslinks within the DNA macromolecule, i.e., it does not prevent the separation of DNA strands or interfere with its replication. The authors' studies on optic rotation of DNA and DNP and melting curves indicate that irradiation causes latent damage to the system of hydrogen bonds. The formation of single breaks in the polynucleotide skeleton may result in rotation around the remaining single bond at the site of the break. This may produce local change in the configuration of the DNA macromolecule, resulting in steric hindrance between the DNA and corresponding protein molecule.

Irradiation with doses below 10^3 rad causes breaks only in a small number of DNA molecules. This does not alter the physicochemical properties of the DNA or DNP as a whole, although it undoubtedly has some biological

Card 1/2

UDC: 577.391

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231T96

SPITKOVSKIY, D. M.

USSR/Physics - Elastic Elongations of Polymers 11 May 52

"The Problem of Elastic Elongations (Expansions) of Polymers," E. I. Berg, D. M. Spitzkovskiy, N. N. Mel'teva, Inst of High-Mol Compds, Acad Sci USSR

"Dok Ak Nauk SSSR" Vol 84, No 2, pp 257-260

Authors give results of investigations of the magnitude of high-elastic elongations of poly-vinyl acetates of various mol wts. Authors state that the purpose of the investigations was

231T96

to obtain the elasticity characteristics of a group of polymers by way of detg the max value of inverse elongation, which, according to them, was 10 times greater than theoretically possible. Authors conclude that subject phenomenon can be clarified by taking into consideration the mutual influence of interweaving mols not considered in the kinetic theory of high elasticity. Submitted by Acad A. F. Iofe 19 Mar 52.

231T96

SMITH, W. H.

Aug 52

USSR/Chemistry - plastics

"The Effect of Strain of the Vitrification Temperature of Polymers," E. I. Bary,
H. N. Mel'teva, and D. V. Spithkovskiy, Inst of High-Mol Compds Acad Sci USSR

"DAN SCIENCE" Vol 85, No 5, pp 1061-1064

The vitrification temp (the temp at which vitrified plastic becomes viscoelastic) of polystyrene, polyvinyl acetate, and polyvinyl butyral was studied with respect to its change at varying loads of strain. It was found that there is a linear relationship bet the vitrification temp and the strain. Submitted by Acad A. F. Ioffe 16 May 52

PA 239T20

SPITKOVSKIY, D. M.

V1175. Methodology of obtaining structures from nucleoproteins and the determination of their rheological properties. D. M. Spitkovski *Biokhimiya*, 1955, 20, 566-570; *Referat. Zh. biol. Khim.*, 1956, Abstr. No. 18815.—A soln. of deoxynucleoprotein (I), obtained according to the Mirski and Polister method, was applied by means of a calibrated capillary to the surface of the medium under examination. If certain precautions are taken, I can be obtained in the form of a gel-like thread of even diameter, the upper end of which is held on the surface by surface tension while the lower end is free. The properties of I were investigated in a special apparatus consisting of a calibrated cylinder with several taps for varying the volume of liquid in the cylinder and fixing the thread. By draining the liquid through one of the taps, the lower end of the thread enters the tap aperture and is fixed by turning the tap. By increasing the vol. of the liquid the fixed thread is stretched and the contraction properties of I determined. For examining relaxation the lower part of the thread is released. The apparatus has fixtures

permitting examination under constant vol. of the medium. If the surface tension is not adequate to hold the upper end of the thread, the latter is fixed to a chemically neutral float which acts as a mobile clamp. If the density of the float is equal to that of the medium the tension arising in relaxation is measured by connecting the float to a tension balance. In these experiments a 0.3 ml. drop of I was converted into a thread 100 mm. long. The linear dependence of relaxation of nuclear I was shown as a function of the temperature and the ion content of the medium. (Russian)

E. L. PARKS

MT

SPITKOVSKIY, D.M.

Determination of molecular weight of deoxyribonucleic

acid by viscosimetry. D. M. Spitkovskii (Inst. Exptl. Biol., Acad. Med. Sci. U.S.S.R., Moscow). *Biofizika* 1, 319-27(1958).—It is possible to calc. the mol. wt. of deoxyribonucleic acid from the measurements of viscosity of its solns. with the formulas given in the article. The method is simple, and does not require the expensive apparatus. It was found that the optimal conditions for the application of the formulas are the concns. of deoxyribonucleic acid from 0.03-0.065% in 0.2M NaCl soln. The agreement between the calcd. and exptl. figures is good. A. V. T.

TONGUR, V.S.; GOLUBEVA, N.P.; DISKINA, L.S.; SPITKOVSKIY, D.M.;
FILIPPOVA, G.V.

Effect of small doses of ionizing radiation on disoxyribonucleo-
proteins [with summary in English]. Biofizika 2 no.4:469-475 '57.
(MLRA 10:9)

1. Institut eksperimental'noy biologii Akademiy meditsinskikh
nauk, SSSR, Moskva
(NUCLEOPROTEINS) (X RAYS--PHYSIOLOGICAL EFFECT)

TONGUR, V.S.; DISKINA, B.S.; SPITKOVSKIY, D.M.

Production and properties of artificial complexes of desoxyribonucleic acid with serum albumin [with summary in English].
Biokhimiia 22 no.5:879-887 S-O '57. (MIRA 11:1)

1. Institut eksperimental'noy biologii Akademii meditsinskikh nauk SSSR, Moskva.

(SERUM ALBUMIN,

artif. complexes with desoxyribonucleic acid (Rus))

(DESOXYRIBONUCLEIC ACID,

artif. complexes with serum albumin (Rus))

SPITKOVSKIY, D.M.; TONGUR, V.S.; DISKINA, B.S.

Some conclusions concerning the structure and physicochemical properties of desoxyribonucleoproteins. Biofizika 3 no.2:129-143 '58. (MIRA 11:4)

1. Institut eksperimental'noy biologii AMN SSSR, Moskva.
(NUCLEOPROTEINS)

SPITKOVSKIY, D.M., TSEYTLIN, P.I.

Viscosimetric determination of the molecular weight of desoxyribonucleoprotein and desoxyribonucleic acid as its constituent [with summary in English]. Biofizika 3 no.3:369-371 '58 (MIRA 11:6)

1. Institut eksperimental'noy biologii AMN SSSR.
(DESOXYRIBONUCLEIC ACID)
(MOLECULAR WEIGHTS)
(VISCOSIMETRY)

SPITKOVSKIY, D.M.

Viscosimetric determination of some molecular parameters of desoxyribonucleic acid [with summary in English]. Biofizika 3 no.4:396-402 '58

1. Institut eksperimental'noy biologii AMN SSSR, Moskva.
(DESOXYRIBONUCLEIC ACID)
(VISCOSIMETRY)

DISKINA, B.S.; SPITKOVSKIY, D.M.

Study of nucleoproteins; structural interrelationships of nucleic acid and protein in the complex desoxyribonucleic acid-- -chymotrypsin and in native nucleoproteins [with summary in English].
Biofizika 3 no.6:633-640 '58. (MIRA 12:1)

1. Institut eksperimental'noy biologii AMN SSSR, Moskva.

(NUCLEIC ACIDS,

structural relationship between nucleic acid & protein in DNA- -chymotrypsin & natural nucleoprotein (Rus))

(NUCLEOPROTEINS,

same)

(CHYMOTRYPSINS,

same)

SPITKOVSKIY, D. M.,

V. S. Diskina, V. S. Tongur, D. M. Spitkovskiy

"The production of desoxy nucleoproteids by means of serum albumin and -Chymotrypsin"

report presented at the 10th All-Union Conf. on Highly Molecular Compounds,
Biologically Active Polymer Compounds, Moscow, 11-13 June 1958. (Vest.Ak
Nauk SSSR, 1958, No. 9, pp. 111-113)

DISKINA, B.S., SPITKOVSKIY, D.M., TONGUR, V.S.

Changes in certain properties of desoxyribonucleoproteins as related to their protein content [with summary in English]. *Biokhimiia* 23 no.3:382-387 My-Je '58 (MIRA 11:8)

1. Institut eksperimental'noy biologii AMN SSSR, Moskva.
(PROTEINS,
desoxyribonucleoproteins, eff. of protein content (Rus))
(DESOXYRIBONUCLEIC ACID,
same (Rus))

SPITKOVSKIY, D.M., Can Biol Sci -- (diss) "^{On}Concerning the nature
and certain methods ~~for~~ ^{of} studying the structural ~~xxx~~ transfor-
mations of natural and artificial desoxyribonucleoproteins."

Mos. 1959, 19 pp (Acad Med Sci USSR. Inst of Experimental

Biology) 200 copies. List of author's works, pp 17-19

(12 titles) (KL, 28-59, 125)

SPIPKOVSKIY, D.M.; TSEYTLIN, P.I.; TONGUR, V.S.

On the configurations of DNA and certain associated phenomena.
Biofizika 5 no.1:3-15 '60. (MIRA 13:6)

1. Institut eksperimental'noy biologii AMN SSSR, Moskva.
(DESOXYRIBONUCLEIC ACID chem.)

SPITKOVSKIY, D.M.

Determination of certain molecular parameters of ribonucleic acid (RNA) in solution. Biofizika 5 no.1:91-93 '60.

(MIRA 13:6)

1. Institut eksperimental'noy biologii AMN SSSR, Moskva.
(RIBONUCLEIC ACID chem.)

TSEITLIN, P.I.; SPITKOVSKIY, D.M.; RYABCHENKO, N.P.

Relation between the molecular morphology of desoxyribonucleia acid
~~macromolecules~~ and their radiosensitivity; radiosensitive and radio-
resistant forms of desoxyribonucleia acid. Biofizika 5 no. 4:393-
397 '60. (MIRA 13:12)

1. Institut eksperimental'noy biologii AMN SSSR, Moskva.
(DESOXYRIBONUCLEIA ACID) (RADIATION—PHYSIOLOGICAL EFFECT)

SPITKOVSKIY, D. M., USAKOVSKAYA, T. S., GOLUBEVA, G. P., RYABCHENKO, N. I.,
SOKOLOVA, T. D., TSEYTLIN, P. I. (USSR).

Structural Lability of Deoxyribonucleic Acids and Deoxyribonucleoproteins as a
function of their Molecular Morphology.

report presented at the 5th Int'l.
Biochemistry Congress, Moscow, 10-16 Aug. 1961

SPITKOVSKIY, D.M.; TSAY LYAN'-VAN' [TS'ai Lien-Wan]; TONGUR, V.S. ;
TSEYTLIN, P.I.

Obtaining a single-spiral deoxyribonucleic acid. Nauch. inform.
Otd. nauch. med. inform. AMN SSSR no.1:11-12'61 (MIRA 16:11)

1. Institut eksperimental'noy biologii (direktor- prof. I.N.
Mayskiy) AMN SSSR, Moskva.

*

TONGUR, V.S.; SPITKOVSKIY, D.M.; TSEYTLIN, P.I.; GORKINA, N.B.

Relation between the configurational stability of desoxyribonucleic acid and its molecular weight; radiosensitive and radioresistant forms of desoxyribonucleic acid. *Biofizika* 6 no. 1:9-14 '61.
(MIRA 14:2)

1. Institut eksperimental'noy biologii AMN SSSR, Moskva.
(DESOXYRIBONUCLEIC ACID) (RADIATION—PHYSIOLOGICAL EFFECT)

SPITKOVSKIY, D.M.

Effect of free and forced convection currents on some structural properties of oriented deoxyribonucleoproteins. Biofizika 7 no.1: 96-98 '62. (MIRA 15:5)

1. Institut eksperimental'noy biologii Akademii meditsinskikh nauk SSSR, Moskva.

(NUCLEOPROTEINS)

(HEAT---CONVECTION)

GOLUBEVA, G. P.; SPITKOVSKIY, D. M.; TSEYTLIN, P. I.

Some common features in the mechanisms of action of ionizing radiation and heat on deoxyribonucleic acid. Radiobiologia 2 no.3:362-364 '62. (MIRA 15:7)

1. Institut eksperimental'noy biologii AMN SSSR, Moskva.

(NUCLEIC ACIDS) (RADIATION--PHYSIOLOGICAL EFFECT)
(HEAT--PHYSIOLOGICAL EFFECT)

RYABCHENKO, N.I.; SPITKOVSKIY, D.M.; TSEYTLIN, P.I.; Primala
uchastiye YASKEVTCH, A.G., studentka

Some physicochemical aspects of single-strand DNA. Biofizika
8 no.1:19-27 '63. (MIRA 17:8)

1. Institut eksperimental'noy biologii AMN SSSR, Moskva i
Institut meditsinskoy radiologii AMN SSSR, Moskva.

SPITKOVSKIY, F.M.

Problem of the quasi-single-spiral state of deoxyribonucleic acid in the deoxyribonucleoprotein complex; mechanism of DNA reduplication. Biofizika 8 no.1:140-141 '63. (MIRA 17:8)

1. Institut eksperimental'noy biologii ANN SSSR, Moskva.

SPITROVSKIY, D.M.

Characteristics of nucleic acid preparations. Determination of
molecular weight of DNA based on its characteristic viscosity.
Sovr. metod. v biokhim. 1:229-236 '64. (MIRA 18:5)

IVANNIK, B.P.; KOMM, S.G.; SPITKOVSKIY, D.M.; TSEYTLIN, P.I.

Effect of small ionizing radiation doses on some phases of the
deoxyribonucleoproteid structuration. Radiobiologiya 5 no.4:
491-493 '65. (MIRA 18:9)

1. Institut eksperimental'noy biologii AMN SSSR; Otdel nauchnoy
i eksperimental'noy meditsinskoy kinematografii AMN SSSR i
Institut meditsinskoy radiologii AMN SSSR, Moskva.

CA

SPITKOVSKIY I. M.

2

The theory of surface tension of metals. I. M. Spitkovskiy (Lvov State Univ., Lvov). *Zhiv. Fiz. Khim.* 26, 1096-3(1950).—The electrostatic potential of the metallic lattice of a closely packed hexagonal structure was found, and the surface tension of the metals was derived therefrom. Comparison of the results with exper. data for such metals as Zn and Cd indicates that the Goussierman theory (*C.A.* 43, 5659b) gives good agreement also for metals of closely packed hexagonal structure. Paul W. Howerton

SPITKOVSKIY, I. M.

Glauberger, A.Ye., and I.M. Spitzkovskiy [L'vov, Gosudarstvennyy universitet (State University)] "On the Polarization of Ionic Displacement in Complex Ionic Crystals "

(The Physics of Dielectrics; Transactions of the All-Union Conference on the Physics of Dielectrics) Moscow, Izd-vo AN SSSR, 1958. 245 p. 3,000 copies printed.

This volume publishes reports presented at the All-Union Conference on the Physics of Dielectrics, held in Dnepropetrovsk in August 1956 sponsored by the "Physics of Dielectrics" Laboratory of the Fizicheskii institut imeni Lebedeva AN SSSR (Physics Institute imeni Lebedev of the AS USSR), and the Electrophysics Department of the Dnepropetrovskiy gosudarstvennyy universitet (Dnepropetrovsk State University).

AUTHORS: Clauberman, A. Ye., Spitzkovskiy, I. M. 48-22-3-7/30

TITLE: On the Polarization of Ionic Displacement in Complex Ionic Crystals (O polyarizatsii ionnogo smeshcheniya v slozhnykh ionnykh kristallakh)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, 1958
Vol. 22, Nr 3, pp. 260-262 (USSR)

ABSTRACT: The formula for the polarizability of the displacements of ions of different kind as well as the presence of numerical estimations of these values must be known (Refs 1 and 2) for the establishment of a molecular theory of the dielectric properties of the ionic crystals, especially of the crystals of barium-titanate. In the case of the symmetric binary systems of the type of NaCl-crystal, the calculation is simple. With complex crystals it becomes difficult. The authors gave a simple general calculation scheme of polarizabilities of ionic displacement for crystals of random structure with a random number of ion-types in the present report. The charges e_k are displaced to ξ_k under the influence of the external field. The full potential energy of the system of charge which refer to the unit cell, is equal to:

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On the Polarization of Ionic Displacement in Complex Ionic Crystals 48-22-3-7/30

$$\sum_{l=1}^h \left[\frac{1}{2} U_l - e_l \xi (r_{lx}^0 + \xi_l) \right]$$

A system of equations with the solution of which the formula

$$d_k = \frac{e_k \xi}{E_k D} \sum_{l=1}^n e_l A_l^k$$

for the polarizability is obtained,

results from the calculation of the equilibrium conditions of the lattice in the presence of an external field with the assumed terms $(\partial^2 U_l / \partial \xi_i \partial \xi_j)_0 = U_{ij}^1$. The formula found for α_k may be applied when solving the equation systems for effective fields which were given for the first time by G. I. Skanavi (Ref 1), as well as for the equation systems which occur in the theory of barium-titanate developed by Glauberman and Lubchenko. The formula

$$\alpha_k = \frac{e_k}{E_k D^*} \sum_{l=1}^n e_l E_l A_l^k + \frac{e_k D_k^*}{E_k D^*} \text{ for } \alpha_k$$

is obtained from a somewhat different calculation scheme where only operations with effective fields acting on ions of different types are carried out. In the equations for effective fields of the type of those investigated in (Refs 1 and 2) the polarizabilities α_k are multiplied with the corresponding

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On the Polarization of Ionic Displacement in Complex Ionic Crystals 48-22-3-7/30

effective fields. The second term of the right part of (6) can consequently be easily numerically estimated. The first

$$\alpha'_k = \frac{e_k}{E_k D} \sum_{l=1}^n e_l E_l A_l^{*k}$$

can be numerically estimated only in the case of substitution of all effective fields by a certain effective mean field. The formulae (4) and (6) may be of use in the molecular quantity-theory of dielectric properties of ionic crystals. There are 3 references, 2 of which are Soviet.

ASSOCIATION: L'vovskiy gos. universitet im. Ivana Franko (L'vov State University imeni Ivan Franko)

AVAILABLE: Library of Congress

1. Crystals--Polarization 2. Crystals--Dielectric properties

Card 3/3

SPITKOV'S "KIV, I. M.

S/058/63/000/003/063/104
A059/A101

AUTHORS: Lyskovych, O. B., Vaydanych, V. I., Spitkovskiy, I. M., Belikovych, B. O., Kulyk, L. M., Chepelyev, V. V., Maksymovych, Kh. K.

TITLE: Growing large single crystals of NaI(Tl)

PERIODICAL: Referativnyy zhurnal, Fizika, no. 3, 1963, 49, abstract 3E324
("Visnyk L'vivs'k. un-tu. Ser. fiz.", no. 1(8), 117 - 119, Ukrainian)

TEXT: Temperature conditions were chosen for growing optically transparent NaI(Tl) single crystals, about 140 mm in diameter and about 100 mm long. Growing was performed by the method of Kyropoulos in a furnace with lateral and bottom heaters. Corundum slag crucibles the walls of which are not wetted by the melt are used. The rate of growth is 3 to 4 mm/hour.

[Abstracter's note: Complete translation]

Card 1/1

L 39413-65 EWT(l)/EWT(m)/T/EWP(t)/EEC(b)-2/EWP(b)/EWA(c) Pi-4 IJP(c)
ACCESSION NR: AP5006055 JD/GG S/0139/65/000/001/0066/0068

34
33
8

AUTHOR: Spitkovskiy, I. M.; Zhrebetskiy, S. K.

TITLE: Distribution of temperature in a melt and in a crystal growing from the melt by the Kiropoulos method 14

SOURCE: IVUZ. Fizika, no. 1, 1965, 66-68

TOPIC TAGS: crystal growth 21 crystal temperature distribution, temperature distribution

ABSTRACT: The article describes a procedure for determining the temperature in a system comprising a melt and an NaI(Tl) crystal growing from it, and an oven in which it becomes possible to produce temperature conditions that are optimal for crystal growth. This oven was used for the measurements. A diagram of the installation is shown in Fig. 1 of the Enclosure. The temperature in the melt and in the growing crystal was measured at several stages of the crystal growth, and a plot of the temperature distribution is presented. The results show also that the temperature gradient inside the crystal is quite high during the last stage of growth

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L 39413-65

ACCESSION NR: AP5006055

(6 deg/cm), so that good annealing is necessary to prevent excessive thermal stresses. Orig. art. has: 2 figures.

ASSOCIATION: L'vovskiy ordena Lenina gosudarstvennyy universitet imeni Iv. Franko
(L'vov State University)

SUBMITTED: 12Jul63

ENCL: 01

SUB CODE: SS

NR REF SOV: 002

OTHER: 000

Card 2/8₂

Submitted

BLEYKHER, Izrail' Gavrilovich, inzh.; LISEYEV, Vasilii Pavlovich, inzh..
Prinimali uchastiye: KHOMUTETSKIY, A.Ye., inzh.; SPITKOVSKIY,
L.N., inzh.. BELEVITIN, A.I., inzh., retsenzent; OBISHCHENKO,
N.P., inzh., red.

[Compressor units] Kompessornye stantsii. Moskva, Gos.nauchno-
tekhn.izd-vo mashinostroit.lit-ry, 1959. 323 p. (MIRA 13:4)
(Air compressors)

SPITKOVSKIY, M. dotsent.

Use in the United States of a "Jack" clamp for selding in ship-
building. Mor. flot 7 no.2:36-40 '47. (MIRA 9:6)
(United States--Shipbuilding) (Ships--Welding)

SPITKOVSKIY, M., dots.

Mechanized hatch covers. Mor. flot 18 no.5:14-15 My '58.

(MIRA 11:6)

1.Odesskiy institut inzhenerov morskogo flota.
(Ships—Equipment and supplies)

SPITKOVSKIY, M.I., kand.tekhn.nauk

Effect of housings in dredger hulls on water resistance to
the propulsion of the vessel. Sudostroenie 25 no.9:7-8
S '59. (MIRA 12:12)

(Hulls (Naval architecture))
(Ship propulsion)

SPLITKOVSKIY, Matvey Isarovich; KALENDER'YAN, Levon Ivanovich; GORYANSKIY, Yu.V., inzh., red.; GRIGOR'YEV, Ya.N., red.; SPEKHIN, S.M., red.; ALEKSANDROV, L.A., red.izd-va; TIKHONOVA, Ye.A., tekhn.red.

[Hull construction and the internal arrangement of ships]
Konstruktsiia korpusa i vnutrennee ustroistvo morskikh sudov.
Moskva, Izd-vo "Morskoi transport," 1960. 378 p. (MIRA 13:9)
(Shipbuilding)

AFANAS'YEV, Yuriy Vyacheslavovich, dots.; DERZHAVETS, Abram Yakovlevich, inzh.; YEGOROV, Nikolay Vladimirovich, dots.; POPOV, Sergey Nikolayevich, prof.; SPITKOVSKIY, Matvey Isarovich; NUNUPAROV, S.M., red.; LAPINA, Z.D., red. izd-va; LAVRENOVA, N.B., tekhn. red.

[Synthetic materials in shipbuilding and ship repairs] Sinteticheskie materialy v sudostroenii i sudoremonte. [by] IU.V.Afanas'ev i dr. Moskva, Izd-vo "Morskoi transport," 1962. 167 p.
(MIRA 15:5)

(Polymers) (Shipbuilding)
(Ships--Maintenance and repair)

RADZEVICH, Ye.N., inzh.; SPITKOVSKIY, S.A., inzh.

Erecting a precast reinforced concrete span instead of a metal
bridge. Transp. stroi. ll no.1:13-15 Ja '61. (MIRA 14:1)
(Railroad bridges)

BARENSON, S.A., inzh.; MITSOVA, G.G., inzh.; KOLOMYTCHEV, E.B., inzh.;
PISHCHANYTS, S.A., inzh.; KRIVKOP, P.F., inzh.; NAUFYIN, Ye.N.,
inzh.; SPITKOVSKIY, S.A., inzh.

Planning and directing the construction of a bridge by a dash-
and-dot work organization chart. Transp. stroi. 15 no.2014-18
F 166. (MIRA 1893)

1. Mostostroy No.1 (for Kolomeytshev). 2. Nauchno-issledovatel'skiy
institut stroitel'nogo proizvodstva Gosstroya UkrSSR (for Vojakov).
3. Mostostroyad No.2 Mostostroye No.1 (for Spitkovskiy).

L 26377-66

ACC NR: AP6007660

(A)

SOURCE CODE: UR/0413/66/000/003/0028/0028

10
B

AUTHORS: Barenboyn, I. Yu.; Dubrova, Ye. P.; Vasil'yev, V. D.; Lurik, N. M.;
Radzevich, Ye. N.; Spitzkovskiy, S. A.; Fuks, G. B.; Fel'dman, M. B.; Leybman,
Ya. M.; Kolomoitsev, B. B.; Flaks, V. A.; Khandzhi, V. V.; Gol'dfel'd, L. M.;
Lifshits, I. L.

ORC: none

TITLE: A means of erecting railroad bridges of arched-span construction from
separate sections. Class 19, No. 178393

SOURCE: Izobreteniya, promyshlennyye obratzys, tovarnyye znaki, no. 3, 1966, 28

TOPIC TAGS: bridge, bridge construction, structural engineering, railroad bridge,
cantilever bridge

ABSTRACT: This Author Certificate presents a means for erecting railroad bridges of
arched span construction from separate sections. The sections are suspended and
joined with struts of the structure above the arch by temporary sloping and horizontal
members. These members serve as cross-stays and upper booms. The sections also
feature a cantilever truss (see Fig. 1) with a triangular framing, the lower girder
of which forms a semi-arch. The upper girder of the cantilever truss is set above
the travel span, which includes separate elements of the truss used in mounting and
elevating the structure. These members subsequently form a triangular cantilever

UDC: 624.624

Card 1/2

L 26377-66

ACC NR: AP6007660

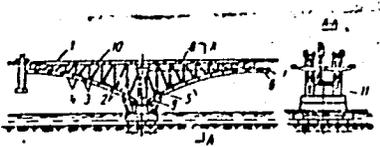


Fig. 1. 1 - upper string of the cantilever truss; 2 - struts; 3 - slanting members; 4 - lower string panels; 5 - anchor post; 6 - key block; 7 - floor plates; 8 - cables; 9 - anchor block; 10 - tension cables; 11 - joints.

frame, cross-stays and semi-arch sections. Each panel thus formed serves as a support for the next panel. The panels are rigidly fastened along the entire face, the process being repeated until the entire semi-arch is formed. Then cables are placed between the link sections and the support. When the cables are tightened, the semi-arches are rotated with respect to the support section, thus unloading the diagonal and horizontal members of the cantilever. The cables are removed, after which the travel-span plates are placed upon the structure above the arch between the link sections of the semi-arch and the support. When the wearing surface is completely laid, the remaining part of the cables is tightened. Favorable working conditions for the support are created by freeing the support from one-sided loadings; assembly of the semi-arch takes place simultaneously on both sides of the pier, with each addition being a cantilever addition. The abutment portion of the semi-arch is prepared in place between the first support block of the semi-arch and the pier. Forces in members of the cantilever are lessened by the introduction of stiffener cables in the upper girder at $1/2$ -- $2/3$ of its design length. Moments in panels on the semi-arch are reduced through a skewed arrangement of axes of diagonals relative to points of intersection of the axes of vertical members and the semi-arch blocks. Joints are placed between adjacent semi-arches on the assembled panels, thus controlling the position of cantilever frames in the span. Orig. art. has: 1 figure.

Card 2/ SUB CODE: 13/ SUBM DATE: 14Nov64

SPITROVSKIY, S. M., Eng.

Woodwork

Making fluted moulding on a milling machine, Der. i lesokhim. prom. 1 No. 9, 1952

Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

1. KOSCOVSKIY, G. N.; SPIKOVSKIY, Z. M.; Engs.
2. USSR (600)
4. Milling Machinery
7. Operating a form milling machine with the spindle located in the upper part.
Der. i lesokhim prom. 2, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

KOSSOVSKIY, G.N., inzhener; SPITKOVSKIY, Z.M., inzhener.

Continuous production of chairs at the Bozhenko furniture plant.
Der.i lesokhim.prom.3 no.1:21-24 Ja '54. (MLRA 7:2)
(Furniture industry)

GEY, H.H., kandidat tekhnicheskikh nauk; SPITKOVSKIY, Z.M., inzhener

The use of high frequency currents in veneering and glueing
furniture parts. Der.prom.4 no.6:9-11 Je 55. (MLRA 8:10)

1. UkrNIIMOD

(Veneers and veneering) (Induction heating) (Dielectric
heating)

SPITKOVSKIY, Z.M., inzh.

Shop for briquetting wood waste. Der. prom. 7 no. 6:14-15 Je '58.
(MIRA 11:8)

1. Ukgioprolesprom.

(Wood waste)
(Briquest(Fuel))

L 05299-67 ENT(L)/ENT(M)/ESP(T)/ETI IJP(c) JD/GG

ACC NR: AR6031852 SOURCE CODE: UR/0058/66/000/006/A064/A064

AUTHOR: Spitkovs'kyy, Y. M.

29
B

TITLE: The effect of a movable heat diaphragm on the temperature distribution in growing crystals

SOURCE: Ref. zh. Fizika, Abs. 6A584

REF SOURCE: Visnyk L'vivs'k. un-tu. Ser. fiz, no. 2, 1965, 104-107

TOPIC TAGS: crystal, crystal growth

ABSTRACT: The stabilization of the temperature field in the Kuropulos method is achieved by means of a vertical shift of the side heater along the crystal, the speeding from the cooler to the base heater on which a beaker with the melt is located, and together with heat diaphragm covering the lower part and connected with the side heater. The temperature distribution curves were given for the furnace during the lowering of the side heater by 0 to 5 cm from the initial position, with and without the diaphragm (for a furnace with a height of 22 cm and a diameter of 12.5 cm). Curves for the temperature drop in various parts of the furnace

Card 1/2

SOV/16-60-4-33/47

17 (6)

AUTHOR:

Spitsa, A.I.

TITLE:

Inhalation Immunization With Pertussis Vaccine in Experiments on Animals. Author's Summary.

PERIODICAL:

Zhurnal mikrobiologii, epidemiologii i immunobiologii, 1960, Nr 4, pp 130 (USSR)

ABSTRACT:

A comparative study was made of the efficacy and desirability of inhalation and subcutaneous immunization of animals with pertussis vaccines. Rabbits were immunized with killed pertussis vaccine containing 20,000 billion bacterial cells per ml, different batches of animals receiving 1 inhalation; 3 inhalation at intervals of 5 days; 1 inhalation a day for 10 days. The total dose in all cases was 0.4 - 0.5 ml of vaccine. Immunity was judged from the agglutinin titer 5, 10, 20 and 30 days after vaccination. The tests showed that on the 10th-20th day after vaccination the antibody titer from triple inhalation immunization was almost the same as that from subcutaneous

Card 1/2

RUDENKO, A.M.; SPITSA A.I.; GROMOV, M.S.

Virusological characteristics of poliomyelitis in Dnepropetrovsk
Province. Vop. virus. 7 no.2:240-241 Mr-Apr '62. (MIRA 15:5)

1. Dnepropetrovskiy institut epidemiologii, mikrobiologii i gigiyeny.
(DNEPROPETROVSK PROVINCE--POLIOMYELITIS)

SIL'CHENKO, T.S.; SPITSA, A.I.

Selection of dysentery microbes exhibiting a protracted retention of their immunogenic and antigenic properties. Zhur.mikrobiol., epid.i immun. 33 no.8:133 Ag '62. (MIRA 15:10)

1. Iz Dnepropetrovskogo instituta epidemiologii, mikrobiologii i gigiyeny.

(DYSENTERY)
(TIMAKOV, V.D.)
(KAGAN, G.IA.)

SPITSA, A.I.

Outbreaks of mixed infection caused by ECHO and adenoviruses.
Zhur. mikrobiol., epid. i imm. 41 no. 2:147-148 F '64.
(MIRA 17:9)

1. Dnepropetrovskiy institut epidemiologii, mikrobiologii i
gigiyeny.

SAVEL'YEV, G.G.; ZAKHAROV, Yu.A.; SPITSA, V.B.

Effect of the electric field on the rate of thermal decomposition
of silver oxalate and azide. Zhur.fiz.khim. 39 no.11:2808-2810
N '65. (MIRA 18:12)

1. Tomskiy politekhnicheskii institut imeni S.M.Kirova.

SPITSER, L.; FLEROVA, M.N. [translator]

Stellarator. Usp.fiz.nauk 71 no.2:327-338 Je '60.
(MIRA 13:6)

(Nuclear fusion)

BABKIN, M.P.; SPITSIN, A.K.

Determination of phenols in water by diazotized paranitroaniline.
Izv. vys. ucheb. zav.; kont. i khim. tekhn. 8 no.3:511-521 '65.
(MIRA 18:10)

L. Dnepet'skiy politekhnicheskiy institut, kafedra analiti-
cheskoy i organicheskoy khimii.

SPITSIN, N., inzh.

New water softening equipment "Nirex-Compact." Mor. flot 23 no.10:
43 0 '63. (MIRA 16:10)

(Denmark--Water--Softening)

SPITSIN, N.

Extend the use of rubberizing materials in the building and
repairing of ships. Mor. flot 24 no.9:32-33 S '64. (MIRA 18:5)

SPITSIN, V.

A device for the automatic longitudinal screw rolling of twist drills. Mashinostroene 11 no.6:39-40 Je '62.

SPITSIN, V.D.

Rolling of titanium alloy foil. Trudy Inst.met.UFAN SSSR no.9:
101-105 '62. (MIRA 16:10)

AKASTELOV, A.I.; MEL'NIKOVA, R.N.; SPITSIN, V.I.

Ultrasonic cleaning of tire tube valves. Kauch. i rez. 23 no.9:
49-50 S '64. (MIRA 17:11)

1. Dnepropetrovskiy shinnyy zavod.

DEMOYEV, N.A.; BOGDANOVA, G.P.; SEITIN, Ye.V.; KHARITONOV, Yu.I.

Effect of potassium and calcium ions on the assimilation of reflex stimulation rhythms in frogs. Nauch. trudy Riaz. med. inst. 15:5-7 (MIRA 17:5) '62.

In Kafedra normal'noy fiziologii (zav. kafedroy - prof. V.F.Shirokiy, rukovoditel' raboty - I.P.Potapov) Ryazanskogo meditsinskogo instituta imeni Lavlova.

SPITSINA, I.O., kand. tekhn. nauk

Means for prolonging the life of joints and parts of crane
mechanisms. Stroi. i dor. mash. 8 no.3:17-20 Mr '63.

(MIRA 18:5)

ZALUKAYEV, L.P.; SPITSINA, L.Ya.

Bimolecular alkylidenearylamines. Part 8: Synthesis of
-2-methyl-4-N-acetanilido-1,2,3,4-tetrahydroquinoline and its
bromination. Zhur.ob.khim. 33 no.6:1956-1958 Je '63. (MIRA 16:7)

1. Voronezhskiy gosudarstvennyy universitet i Voronezhskiy
sel'skokhozyaystvennyy institut.
(Quinoline) (Bromination)

1. PONOMAREVA, L.I.; SPIITSKAYA, T.D.
2. USSR (600)
4. Horse Breeding
7. Effect of selection by age on the quality of progeny from young horses, L.I. Ponomareva, T.D. Spitskaya, Konevodstvo 23 no. 5, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

1. SPITSKAYA, V. I.
2. USSR (600)
4. Tsimlyansk Reservoir Region - Industrial Hygiene
7. Sanitary services for lumberjacks and workers employed in clearing the site of the TSimlyansk reservoir. Gig. i san. 17 no. 9, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

SPITSKIY, V.N.; SOKOLOVSKIY, M.B.

Semicordon stacking method used in storing hides and skins.
Obm.tekh.opyt. [MLP] no.27:3-5 '56. (MIRA 11:11)
(Hides and skins)

SPITSKIY, V.N.; SOKOLOVSKIY, M.B.

Checking the presence of soda ash in wet salted skins. Obm.tekh.
opyt. [MLP] no.27:5-6 '56. (MIRA 11:11)
(Hides and skins--Testing)

SELUGLIT, B.Ye.; SPITSKIY, V.N.

Exhaust units used during the primary treatment of hairs.

Obm.tekh.opyt. [MLP] no.27:6-8 '56. (MIRA 11:11)

(Tanning) (Exhaust systems)

SHLUGLIT, B.Ye.; SPITSKIY, V.N.

~~Assorting fleshed pigskins on conveyors.~~ Obn.tekh.opyt. [MLP]
no.27:9-12 '56. (MIRA 11:11)
(Hides and skins) (Swine)

~~SPITS'KIY, V. V.~~

Historical conceptions of I. IA. Franko. Nauk. zap. Kiev. un. 15
no. 8: 99-113 '56. (MLRA 10: 7)
(Franko, Ivan, 1856-1916) (History--Philosophy)

SPIITSKIY, V. Ye. [Spyts'kyi, V. I.E.]

Important problems in the history of the Ukrainian people
"Outline sociopolitical history of the Ukraine east of the
Dnieper at the end of the 17th and beginning of the 18th cen-
tury" by V.A. Kiadychenko. Reviewed by V.I.E. Spyts'kyi). Dop.
AN URSSR no.1:127-133 '60. (MIRA 13:6)
(Ukraine--History) (Kiadychenko, V.A.)

Vovk, A.O., kand.istor.nauk; SPITSKIY, V.Ye. [Spyts'kyi', V.IE.], kand.istor.nauk

Page from heroic past ("National movements on the left bank and in eastern Ukraine from 1750 to 1780" by K.I.Stetsiuk. Reviewed by A.O.Vovk, V.IE.Spyts'kyi). Nauka i zhyttia 10 no.12:60-61 D '60. (MIRA 14:4)

(Ukraine--Peasant uprisings) (Stetsiuk, K.I.)

1. SPITSKIY, Ye N.
2. USSR (600)
4. Bee Culture - Equipment and Supplies.
7. Stand for working with a second hive body.
Pchelovodstvo 29. no. 11. 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

SPITSKO, V.^D, inzh.

On the right path. Sov.shakht. 10 no.7:10 J1 '61.

(MIRA 14:8)

(Donets Basin—Coal mines and mining—Labor productivity)

SPITSKO, V.D., inzh.

Ventilation of development workings in steeply dipping seams.
Ugol' 36 no.3:50 Mr '61. (MIRA 14:5)

1. Shakhta No.8-A im. Stalina tresta Kalininugol'.
(Mine ventilation)

SPITSKO, V.D.

Laying of compressed air pipes on workings' intersections under
the haulage tracks. Ugol' Ukr. 6 no.6:34 Je '62. (MIRA 15:7)
(Airpipes)
(Mining engineering)

SPITSYAN, A.; STEPAN'YANTS, A.

Electronic musical instrument. Radio no.3:44-47 Mr '63.
(MIRA 16:2)

(Musical instruments, Electronic)

SPITSYN, A.

On the "Lomonosov." Rech. transp. 21 no.2:23 F '62.

(MIRA 15:3)

1. Sekretar' komiteta Vsesoyuznogo Leninskogo kommunisticheskogo
soyuza molodezhi Khabarovskoy remontno-ekspluatatsionnoy bazy flota.
(Inland water transportation--Employees)

POTEMKIN, K.V.; SPITSYN, A.; SHUGAYEV, I.A.; POL'KIN, S.I.;
SAKSAGANSKAYA, I.P.; ANDREYEV, F.I.; POLYAKOV, R.M.,
red.; VERIGO, K.M., red.

[Production of zirconium and hafnium in capitalist countries]
Proizvodstvo tsirkoniia i gafniia v kapitalisticheskikh stranakh. Moskva, Pts.1-3. 1962. 157 p. (MIRA 17:4)

1. Moscow. Tsentral'nyy institut informatsii tsvetnoy metallurgii.

SHKIBANDU, P.; SPITSYN, A.

Improved support device for semitrailers. Avt.transp. 43 no.3:42
Mr '65. (MIRA 18:5)

124-1957-1-84

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 1, p 8 (USSR)

AUTHOR: Spitsyn, A. D.

TITLE: Investigation of the Longitudinal Stability of a Mining Cart
(Issledovaniye prodol'noy ustoychivosti rudnichnoy vagonetki)

PERIODICAL: Sb. nauch. tr. Kazakh. gorno-metallurgich. in-ta, 1954, Nr 9,
pp 320-326

ABSTRACT: A discussion of the problem of the static longitudinal stability of four-wheel mining carts on a horizontal track during one-sided dump-loading. Recommendations are proffered for optimal ratios between the linear dimensions of the cart.

L. A. Rozenberg

1. Vehicles--Stability

Card 1/1

15-57-8-11762
Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 8,
p 256-257 (USSR)

AUTHOR: Spitsyn, A. D.

TITLE: Effective Use of "Donbas" Combine With Various Sizes
of Cutter (K voprosu ob effektivnom ispol'zovanii
kombayna "Donbass" pri razlichnykh razmerakh bara)

PERIODICAL: Sb. nauch. tr. Kazakhsk. gorno-metallurg. in-t, 1956,
Nr 13, pp 244-255

ABSTRACT: The author gives a theoretical determination of the
rate of feed, the size of the cutter and the corre-
sponding maximum output of the "Donbas" combine,
basing his observations on the heating of the engine.
He arrives at the conclusion that with full use of the
power of the main engine, the output of the combine
is in inverse proportion to the rate of feed. The
output of the combine at optimum values of the rate

Card 1/2

SPITSYN, A. K.

U.S.S.R.

✓ Refractometric methods for the determination of free
 alkalis in phenates. A. K. Spitsyn and G. A. Markus. ^C
~~Zavodskaya Lab. 21, 576-4 (1955).~~ ^H The method is based on
 the detn. of n_D of solns. before and after their neutralization ^D
 with phenol. The detn. is complete in not over 10 min.
 time. n_D of the phenate soln., n_1 , at 20° is detd. in the usual
 way. In a 50-ml. test tube, mix. 2.5 ml. phenate soln.
 for 2-3 min. with 20 ml. of 3% xylenes in benzene, and det.
 n_2 , the index of the lower layer of phenates. The proportion
 of free alkali in the original mixt. is calcd. from n_1-n_2 by
 using a formula given, or from a table. W. M. S.

02